



### PCT

(PCT Rule 61.2)

### From the INTERNATIONAL BUREAU

NOTIFICATION OF ELECTION

01 July 1999 (01.07.99)

DCT/ ID09/05700

Date of mailing:

International application No.:

To:

United States Patent and Trademark

2499WO0P

in its capacity as elected Office

Office (Box PCT) Crystal Plaza

Crystal Plaza 2 Washington, DC 20231 ÉTATS-UNIS D'AMÉRIQUE

Applicant's or agent's file reference:

2430 (43)				
International filing date:	Priority date: 19 December 1997 (19.12.97)			
Applicant: ISHIKAWA, Tomoyasu et al				
The designated Office is hereby notified of its election mac				
1. The designated Office is nereby notified of its election made	je:			
X in the demand filed with the International preliminar				
31 May 1999 (	(31.05.99)			
in a notice effecting later election filed with the Inter-	national Bureau on:			
2. The election X was was not was not made before the expiration of 19 months from the priority.	date or, where Rule 32 applies, within the time limit under			
Rule 32.2(b).				
· · · · · · · · · · · · · · · · · · ·				

Authorized officer:

Telephone No.: (41-22) 338.83.38

J. Zahra

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

# Translation



# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2499WOOP FOR FURTHER ACTION SeeNotificationofTransmittalofInternational Prelimit Examination Report (Form PCT/IPEA/416)					
International application No.	International filing date (day/n	ionth/year)	Priority date (day/month/year)		
PCT/JP98/05709 17 December 1998 (17.12.1998) 19 December 1997 (19.12.1993)					
International Patent Classification (IPC) or national classification and IPC C07F 9/6561					
Applicant TAKEDA CHEMICAL INDUSTRIES, LTD.					
This international preliminary exami and is transmitted to the applicant ac	ination report has been prepared cording to Article 36.	by this Intern	ational Preliminary Examining Authority		
2. This REPORT consists of a total of					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a total of sheets.					
This report contains indications relat	3. This report contains indications relating to the following items:				
1 Basis of the report					
ll Priority					
III Non-establishment o	of opinion with regard to novelty	, inventive ste	p and industrial applicability		
lV Lack of unity of inve					
V Reasoned statement citations and explana	under Article 35(2) with regard ations supporting such statement	to novelty, in	ventive step or industrial applicability;		
VI Certain documents o	ited				
VII Certain defects in th	e international application				
VIII Certain observations	s on the international application				
-					
Day of submission of the demand	Date of	completion of	f this report		
Date of submission of the demand		Date of completion of this report			
31 May 1999 (31.05.1	999)	13 0	ctober 1999 (13.10.1999)		
Name and mailing address of the IPEA/JP Japanese Patent Office, 4-3 Kasumiga Chiyoda-ku, Tokyo 100-8915, Japan		ized officer			
Facsimile No.	Teleph	one No. (81-3	3581 1101		
1 201 1 100					

Form PCT/IPEA/409 (cover sheet) (July 1998)



1.	Basis	the report	
1.	With	egard to the elements of the international application:*	
	$\boxtimes$	the international application as originally filed	
	H	the description:	
	ш	pages	, as originally filed
		·	, filed with the demand
			, inco with the demand
		pages, filed with the letter of	
		the claims:	
		pages	, as originally filed
		pages, as amended (together with an	y statement under Article 19
		pages	, filed with the demand
		pages, filed with the letter of	<del></del>
	$\Box$	the drawings:	
		pages	, as originally filed
		pages	, filed with the demand
		pages, filed with the letter of	
	П.	e sequence listing part of the description:	
	Ш,	•	
			, as originally filed
			, filed with the demand
		pages, filed with the letter of	<del>_</del>
2.	the ir	egard to the language, all the elements marked above were available or furnished to this Author emational application was filed, unless otherwise indicated under this item. elements were available or furnished to this Authority in the following language	ity in the language in which
		the language of a translation furnished for the purposes of international search (under Rule 23.1(t	o)).
	Ħ	the language of publication of the international application (under Rule 48.3(b)).	"
	$\exists$	the language of the translation furnished for the purposes of international preliminary examina	tion (under Rule 55.2 and/
		or 55.3).	
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international ap inary examination was carried out on the basis of the sequence listing:	plication, the international
		contained in the international application in written form.	
		filed together with the international application in computer readable form.	
		furnished subsequently to this Authority in written form.	
	$\sqcap$	furnished subsequently to this Authority in computer readable form.	
		The statement that the subsequently furnished written sequence listing does not go bey international application as filed has been furnished.	ond the disclosure in the
		The statement that the information recorded in computer readable form is identical to the water fundamental to the water	ritten sequence listing has
		been furnished.	
4.		The amendments have resulted in the cancellation of:	
	_	the description, pages	
		the claims, Nos.	
		the drawings, sheets/fig	
5.		This report has been established as if (some of) the amendments had not been made, since they beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). **	have been considered to go
	Repla in thi and 7	ement sheets which have been furnished to the receiving Office in response to an invitation unde report as "originally filed" and are not annexed to this report since they do not contain 1.17).	r Article 14 are referred to amendments (Rule 70.16
		placement sheet containing such amendments must be referred to under item 1 and annexed to thi.	s report.
	anyer	Muchine Steel community sites unrenaments miss of rejerror to miss. Hem I and annexed to mis	· · · · ·



PCT/JP98/05709

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability 1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of: the entire international application. claims Nos. because: the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify): The subject matter of Claims 25-28 relates to a method for treatment of the human body. the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify): are so inadequately supported the claims, or said claims Nos. by the description that no meaningful opinion could be formed. no international search report has been established for said claims Nos. 2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: the written form has not been furnished or does not comply with the standard. the computer readable form has not been furnished or does not comply with the standard.



PCT/IP98/05709

. Statement			
Novelty (N)	Claims	1-24	YE
	Claims		ио
Inventive step (IS)	Claims		YE
	Claims	1-24	NO
Industrial applicability (IA)	Claims	1-24	YE:
	Claims		NO

### 2. Citations and explanations

Based on documents 1-3 cited in the international search report, the inventions in Claims 1-24 of this application do not appear to involve an inventive step.

Document 1: JP, 9-100283, A (Takeda Chemical Industries, Ltd.) April 15, 1997 (15.04.97)
Document 2: JP, 55-11600, A (Fujisawa Pharmaceutical Co., Ltd.) January 26, 1980 (26.01.80)
Document 3: JP, 59-31791, A (Fujisawa Pharmaceutical Co., Ltd.) February 20, 1984 (20.02.84)

Although a phosphono group or a group that can be converted to a phosphono group is not specifically listed as a protective group for the amino group that may be protected in document 1, it is obvious to persons skilled in the art that a phosphono group is included in the protective groups for an amino group that may be protected (see, for example, document 2, Claims 1, 29, and 30; page 14, upper right column, lines 5-14; page 67, lower right column, line 17 to page 68, upper left column, line 4). Moreover, it is known that a compound that is poorly soluble in water may be made quite soluble by the introduction of a phosphono group or a group that can be converted to a phosphono group (see, for example, document 3, page 13, upper left column, line 11 to lower left column, line 3). This review finds that there is no inventive step involved in using a phosphono group or a group that can be converted to a phosphono group as a protective group for the amino group that may be protected in document 1.

# INTERNATIONAL SEARCH REPORT

International application No.

		1			
A. CLAS	SIFICATION OF SUBJECT MATTER C1 C07F9/6561				
According t	to International Patent Classification (IPC) or to both n	ational classification and IPC	y 54		
B. FIELD	S SEARCHED				
Minimum o	documentation searched (classification system followed C1 C07F9/6561	l by classification symbols)			
Documenta	tion searched other than minimum documentation to th	e extent that such documents are include	ed in the fields searched		
CAPI	lata base consulted during the international search (na AS (STN), REGISTRY (STN), WPI:	me of data base and, where practicable, DS (STN)	search terms used)		
C. DOCU	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap		Relevant to claim No.		
Y	15 April, 1997 (15, 04, 97).	ical Industries,Ltd.),	1-28		
	Claims 1 to 13; Par. No. [0	001] (Family: none)			
Y					
	Ltd.), 26 January, 1980 (26. 01. 80), Claims 1, 29, 30; page 14, upper left column, lines 5 to 14; page 67, lower right column, line 17 to page 68, upper left column, line 4 & EP, 7470, Al & US, 4268509, A				
Y	Ltd.), 20 February, 1984 (20. 02. 84), Claims 1, 3; page 13, upper right column, line 11				
	to lower left column, line 3 & EP, 99553, Al & US, 4563				
	*				
Furthe	er documents are listed in the continuation of Box C.	See patent family annex.	1		
"A" docume conside "E" earlier of docume cited to special	cutepories of cited documents: nit defining the general state of the art which is not red to be of particular relevance document but published on or after the international filing date ent which may throw doubts on priority elain(s) or which is ceablish the publication date of another citation or other reason is specified) nit referring to a noral disclosure, use, exhibition or other	T later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention.  X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken along the constant of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document for stricturar relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
the prio	ent published prior to the international filing date but later than ority date claimed	being obvious to a person skilled in the "&" document member of the same patent!	art		
10 M	actual completion of the international search arch, 1999 (10. 03. 99)	Date of mailing of the international se 23 March, 1999 (23			
	nailing address of the ISAV nese Patent Office	Authorized officer			
Facsimile N	o	Telephone No.	•		

### 特許協力条約

今後の手続きについては、国際予備審査報告の送付通知(様式PCT/

IPEA/416)を参照すること。

唐木 以知良

電話番号 03-3581-1101 内線

PCT

# REC'D 2 9 OCT 1999

WIPO PCT

### 国際予備審查報告

(法第12条、法施行規則第56条) [PCT36条及びPCT規則70]

COMMISSION OF THE PARTY OF

2499WO0P

出願人又は代理人

の書類記号

Franks Liver of El

				(日.月.年)	19.12.97			
国際特	国際特許分類(IPC) Int. Cl°C07F9/6561							
出願人	(氏	名又	は名称) 武田薬品工業	株式会社				
1.	国際	予備	審査機関が作成したこの	国際予備審査報告	を法施行	規則第57条	(РСТЗ6条) の期	定に従い送付する。
2.	この	国際	予備審査報告は、この表紀	紙を含めて全部で		4^	ベージからなる。	
i	_	查機 (P	国際予備審査報告には、『 関に対してした訂正を含む CT規則70.16及びPCT 書類は、全部で	り明細書、請求の 実施細則第607	庭囲及ひ 号参照)	/又は図面も		/ 又はこの国際予備審
з.	この	国際	予備審査報告は、次の内容	容を含む。				
	I	$\times$	国際予備審査報告の基礎					
	п		優先権					
	□ ※ 新規性、進歩性又は産業上の利用可能性についての国際予備審査報告の不作成							
	IV							
	v	$\boxtimes$	PCT35条(2)に規定の文献及び説明	する新規性、進歩f	生又は産	業上の利用す	可能性についての見解	3、それを裏付けるため
	VI		ある種の引用文献					
	VII		国際出願の不備					
	VII		国際出願に対する意見					
					_			
国際予	- 備審	査の	請求書を受理した日 31.05.99		国際	<b>子備審查報</b> 台	告を作成した日 . 13.10.	9 9
名称及びあて先 日本国特許庁 (IPEA/JP)			特許	F庁審査官(F	権限のある職員) /(国立	4H 8018		

郵便番号100-8915

### 国際予備審査報告

国際出願番号 PCT/JP98/05709

_						
Ì.	Œ	即子備審查報	2告の基礎			
1.	1. この国際予備審査報告は下記の出願審額に基づいて作成された。(法第6条(PCT14条)の規定に基づく命令に 応答するために提出された差し替え用紙は、この報告書において「出願時」とし、本報告書には添付しない。 PCT規則70.16,70.17)					
	$\times$	出願時の国際	出願書類			
		明細書 明細書 明細書	第 第 	_ ページ、 - ページ、 - ページ、	出願時に提出されたもの 国際予備審査の請求書と共に提出されたもの 付の書簡と共に提出された。	5 O
		請求の範囲 請求の範囲 請求の範囲	第	_項、 _項、 _項、	出願時に提出されたもの PCT19条の規定に基づき補正されたもの 国際予備審査の請求書と共に提出されたもの	
		請求の範囲			国際「開発量の請求者と共に使出されたもの 一一一一付の書簡と共に提出された。	50
		図面 図面 図面	第	_ページ/図、 _ページ/図、 _ページ/図、	国際予備審査の請求書と共に提出されたもの	50
		明細書の配列	表の部分 第    表の部分 第 	_ページ、 _ページ、 _ページ、 _	出願時に提出されたもの 国際子備審査の請求書と共に提出されたもの	ЬФ
2.	J	:記の出願書類	(の言語は、下記に示す場合を	除くほか、こ	の国際出願の言語である。	
	١	こ記の書類は、	下記の言語である	語であ	<b></b>	
	[	РСТ規	のために提出されたPCT規則 則48.3(b)にいう国際公開の言 審査のために提出されたPC^	語		
з.	3. この国際出願は、ヌクレオチド又はアミノ酸配列を含んでおり、次の配列表に基づき国際予備審査報告を行った。					
	□ この国際出解に含まれる書面による配列表 □ この国際出解と共に提出されたフレキシブルディスクによる配列表 □ 出解後に、この国際予備審査(または調査)機関に提出された書面による配列表 □ 出解後に、この国際予備審査(または調査)機関に提出されたフレキシブルディスクによる配列表 □ 出解後と提出した書面による配列表が出版時における国際出解の開示の範囲を超える事項を含まない旨の解述					
		書の提出	があった			
	Į		る配列表に記載した配列とフ があった。	レキシブルディ	ィスクによる配列表に記録した配列が同一である旨の陳	述
4.		前正により、T 明細書	記の書類が削除された。 第	_ページ		
		請求の範囲		_項		
	Ш	図面	図面の第	^-	ジ/図	
5.		れるので、そ		して作成した。	が出願時における開示の範囲を嬉えてされたものと認: 。(PCT規則70.2(c) この補正を含む差し替え用紙は 告に添付する。)	

### 国際予備審査報告

国際出願番号 PCT/JP98/05709

ш.	新規性、進歩性又は産業上の利用可能性についての国際予備審査報告の不作成
1.	次に関して、当該請求の範囲に記載されている発明の新規性、進歩性又は産業上の利用可能性につき、次の理由により 審査しない。
	国際出願全体
Þ	請求の範囲 2 5 - 2 8
理由	1:
×	この国際出願又は請求の範囲 25-28 は、国際予備審査をすることを要しない 次の事項を内容としている(具体的に記載すること)。
	人の身体の治療による処置
	明細書、請求の範囲者しくは図面(次に示す部分)又は請求の範囲 の
ш	明細書、講求の範囲者しくは図面(次に示す部分)又は請求の範囲 Ø 記載が、不明確であるため、見解を示すことができない(具体的に記載すること)。
	·
П	全部の請求の範囲又は請求の範囲 が、明細書による十分な
_	要付けを欠くため、見解を示すことができない。
	請求の範囲 について、国際調査報告が作成されていない。
2.	ヌクレオチド又はアミノ酸の配列表が実施細則の附属書C (塩基配列又はアミノ酸配列を含む明細書等の作成のための ガイドライン) に定める基準を満たしていないので、有効な国際予備審査をすることができない。
	□ 書面による配列表が提出されていない又は所定の基準を満たしていない。
	□ フレキシブルディスクによる配列表が提出されていない又は所定の基準を満たしていない。

様式PCT/IPEA/409 (第Ⅲ欄) (1998年7月)



国際出願番号 PCT/JP98/05709

<ul><li>V. 新規性、進歩性又は産業上の利用可能性 文献及び説明</li></ul>	Eについての法第12条 (Pe	CT35条(2)) に定める見解、	それを裏付ける
1. 見解			
新規性(N)	請求の範囲	1 - 2 4	
進歩性(IS)	請求の範囲 請求の範囲	1 - 2 4	有 無
産業上の利用可能性 (IA)	請求の範囲 請求の範囲	1 - 2 4	
<ol> <li>文献及び説明 (PCT規則70.7)</li> </ol>			
この出願の請求の範囲1-2 3からみて、進歩性を有さない。		際調査報告で引用された	二文献1-
文献 1 . JP, 9-100283, A(武田 文献 2 . JP, 55-11600, A(藤沢 文献 3 . JP, 59-31791, A(藤沢	薬品工業株式会社)26	5. 1月. 1980 (26. 01. 80)	
即ち、文献1には保護されで ノ基またはホスフォノ基に変じ アミノ基の保護基としてはホス (例えば、文献2、計款項1、23 第68頁左上欄第4行参照)し、ま を導入することにより水に難左上 (例えば、文献3、第13頁右左上 保護されていてもよいまする上 に渡右上 保護されていてもよい進歩性は じうる基を用いる点に進歩性は	うる基は例示されて フォノ基が包含され 9、30、第14頁左上欄 た、ホスフォノ基ま 性の化合物をより場 関第11行-左下欄第37 の保護基としてホス	いないが、保護されていることは当業者に明られば当業者に明ら下根 順第5-14行,第67頁右に下根 にはホスフォノ基に変 を性とし得ることも知ら 行参照)ので、文献1	いてもある。 関第17行- じれてもあるいる にれおける これにおける

# Translation

## PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2499WO0P  FOR FURTHER ACTION SeeNotification of Transmittal of International Preliminar Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date (day/	month/year)	Priority date (day/month/year)	
PCT/JP98/05709	17 December 1998 (17	.12.1998)	19 December 1997 (19.12.1997)	
International Patent Classification (IPC) or national classification and IPC C07F 9/6561				
Applicant TAI	KEDA CHEMICAL INDI	JSTRIES, L	TD.	
This international preliminary examined is transmitted to the applicant ac     This REPORT consists of a total of	cording to Article 36.		ational Preliminary Examining Authority	
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rul-70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of sheets.				
IV Lack of unity of inv  V Reasoned statement citations and explan  VI Certain documents of VII Certain defects in the	of opinion with regard to novelt ention under Article 35(2) with regard ations supporting such statemen	i to novelty, in	p and industrial applicability ventive step or industrial applicability;	
Date of submission of the demand	Date o	of completion o	f this report	
31 May 1999 (31.05.1	999)	13 Ó	ctober 1999 (13.10.1999)	
Name and mailing address of the IPEA/JP Japanese Patent Office, 4-3 Kasumiga Chiyoda-ku, Tokyo 100-8915, Japan		rized officer		
Facsimile No.	Telepl	none No. (81-3	3581 1101	

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

1.	Basis	of the re	eport	
1.	With	regard to	o the elements of the international application:*	
	$\boxtimes$	the inte	ernational application as originally filed	
	П	the des	scription:	
	_	pages		, as originally filed
		pages		, filed with the demand
		pages	, filed with the letter of	
	$\Box$	the clai		
	_	pages		, as originally filed
		pages	, as amended (together with any st	atement under Article 19
		pages		, filed with the demand
		pages	, filed with the letter of	
	_			
	ш	the dra		, as originally filed
		pages		, filed with the demand
		pages pages	, filed with the letter of	
	_	puges	, filed with the letter of	
	<u></u> ∟ '	he seque	ence listing part of the description:	
		pages		
		pages		
		pages	, filed with the letter of	
2.	the it	nternatio e elemen the lan the lan the lan	nguage of a translation furnished for the purposes of international search (under Rule 23.1(b)).  Inguage of publication of the international application (under Rule 48.3(b)).  Inguage of the translation furnished for the purposes of international preliminary examination	which is:
3.	With	minary e	<ol> <li>to any nucleotide and/or amino acid sequence disclosed in the international appli xamination was carried out on the basis of the sequence listing:</li> <li>ned in the international application in written form.</li> </ol>	cation, the international
	Ħ		ogether with the international application in computer readable form.	
	Ħ		hed subsequently to this Authority in written form.	
	Ħ		hed subsequently to this Authority in computer readable form.	
		The s	statement that the subsequently furnished written sequence listing does not go beyon ational application as filed has been furnished.	d the disclosure in the
			tatement that the information recorded in computer readable form is identical to the writerished.	tten sequence listing has
4.		The ar	mendments have resulted in the cancellation of: the description, pages the claims, Nos the drawings, sheets/fig	
5.		This re beyond	port has been established as if (some of) the amendments had not been made, since they ha t the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	ve been considered to go
•	in th	acement is repor 70.17).	sheets which have been furnished to the receiving Office in response to an invitation under t as "originally filed" and are not annexed to this report since they do not contain t	Article 14 are referred to amendments (Rule 70.16
**			nent sheet containing such amendments must be referred to under item I and annexed to this r	report.



### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<ol> <li>The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:</li> </ol>
the entire international application.
Claims Nos. <u>25-28</u>
because:
the said international application, or the said claims Nos. 25-28 relate to the following subject matter which does not require an international preliminary examination (specify):
The subject matter of Claims 25-28 relates to a method for treatment of the human body.
the description, claims or drawings (indicate particular elements below) or said claims Nos.
are so unclear that no meaningful opinion could be formed (specify):
the claims, or said claims Nos are so inadequately supported
by the description that no meaningful opinion could be formed.
no international search report has been established for said claims Nos.
2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:
the written form has not been furnished or does not comply with the standard.
the computer readable form has not been furnished or does not comply with the standard.



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Claims

Claims

International application No.

1-24

1-24

PCT/IP98/05709

NO

YES

NO

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims

1-24

YES

Claims

NO

Inventive step (IS)

Claims

YES

2. Citations and explanations

Industrial applicability (IA)

Based on documents 1-3 cited in the international search report, the inventions in Claims 1-24 of this application do not appear to involve an inventive step.

Document 1: JP, 9-100283, A (Takeda Chemical Industries, Ltd.) April 15, 1997 (15.04.97)
Document 2: JP, 55-11600, A (Fujisawa Pharmaceutical Co., Ltd.) January 26, 1980 (26.01.80)
Document 3: JP, 59-31791, A (Fujisawa Pharmaceutical Co., Ltd.) February 20, 1984 (20.02.84)

Although a phosphono group or a group that can be converted to a phosphono group is not specifically listed as a protective group for the amino group that may be protected in document 1, it is obvious to persons skilled in the art that a phosphono group is included in the protective groups for an amino group that may be protected (see, for example, document 2, Claims 1, 29, and 30; page 14, upper right column, lines 5-14; page 67, lower right column, line 17 to page 68, upper left column, line 4). Moreover, it is known that a compound that is poorly soluble in water may be made quite soluble by the introduction of a phosphono group or a group that can be converted to a phosphono group (see, for example, document 3, page 13, upper left column, line 11 to lower left column, line 3). This review finds that there is no inventive step involved in using a phosphono group or a group that can be converted to a phosphono group as a protective group for the amino group that may be protected in document 1.

	From the INTERNATIONAL BUREAU		
PCT	To:  TAKAHASHI, Shuichi Osaka Plant of Takeda Chemical Industries, Ltd. 17-85, Jusohonmachi 2-chome Yodogawa-ku Osaka-shi Osaka 522-0024 JAPON		
NOTIFICATION OF THE RECORDING OF A CHANGE  (PCT Rule 92bis.1 and Administrative Instructions, Section 422)  Date of mailing (day/month/year) 23 December 1999 (23.12.99)			
Applicant's or agent's file reference			
2499WO0P	IMPORTANT NOTIFICATION		
International application No. PCT/JP98/05709	International filing date (day/month/year) 17 December 1998 (17.12.98)		
The following indications appeared on record concerning:     the applicant the inventor X the agent the common representative			
Name and Address		State of Nationality	State of Residence
3		Telephone No.	
		Facsimile No.	
		Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:			
X the person the name the add	Iress	the nationality	the residence
Name and Address  TAKAHASHI, Shuichi Osaka Plant of Takeda Chemical Industries, Ltd. 17-85, Jusohonmachi 2-chome Yodogawa-ku Osaka-shi Osaka 532-0024 Japan		State of Nationality	State of Residence
		Telephone No.	
		06 6300 6845	
		Facsimile No. 06 6300 6601	
		Teleprinter No.	
Further observations, if necessary.     The person in Box 2 has been appointed as a sub-agent and should be added to the record.			
4. A copy of this notification has been sent to:			
X the receiving Office	the designated Offices concerned		
the International Searching Authority	Ī	X the elected Offices concerned	
the International Preliminary Examining Authority	Ì	other:	
Authorized officer			
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Masashi HONDA		
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38		